**Bruhat Bangalore Mahanagara Palike**
**Excecutive Engineer Project Division**

**Name of Work: Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04**

| Sl No | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Removing B.S slabsand stacking etc complete | Sqm | | | | | 2306.25 | 68.35 | 157632.19 |
| 2 | Refixing stone slabs of drains and pointing in C.M | Sqm | | | | | 2148.90 | 83.78 | 180034.84 |
| 3 | KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | Sqm | | | | | 13054.63 | 9.92 | 129501.93 |
| 4 | KSRRB 200-1. Cutting of trees girth from 300mm to 600mm including cutting of trunks, branches and removal of stumps roots stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. | Each | | | | | 0.00 | 208.35 | 0.00 |
| 5 | Removing stumps, tree roots, roots of bamboo cluster etc.,, with 8.2.2 grith above 1.50 m and upto 3.00 m including excavation, stacking materials neatly and levelling area etc | Each | | | | | 0.00 | 91.52 | 0.00 |
| 6 | Dismantling Mangalore tiles roof and stacking the material within a radius of 50 meters. including cost of materials, labour, HOM complete as per specifications. | Sqm | | | | | 0.00 | 68.35 | 0.00 |
| 7 | Dismantling of existing structure like Culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding whereever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material and stacking the serviceble material with all lifts complete with all lifts complete as per specifications. C prestressed / Reinforced cement concrete grade M-20 & above | | | | | | | | |

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| Sl No | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | cum | | | | | 30.36 | 1126.65 | 34205.09 |
| 8 | Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin- charge. In cement mortar | | | | | | | | |
| | | cum | | | | | 0.00 | 225.99 | 0.00 |
| 9 | Dismantling burnt brick masonry in clay mortar/lime mortar/cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance upto 200m. including cost of materials, | | | | | | | | |
| | | Sqm | | | | | 0.00 | 171.97 | 0.00 |
| 10 | Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms). including cost of | | | | | | | | |
| | | Sqm | | | | | 0.00 | 60.63 | 0.00 |
| 11 | KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. | | | | | | | | |
| | | Sqm | | | | | 0.00 | 60.63 | 0.00 |
| 12 | KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in ccordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. | | | | | | | | |
| | | cum | | | | | 13461.84 | 50.71 | 682649.80 |
| 13 | KSRRB 300-8. Excavation in hard rock by chiselling and / or wedging where blasting is prohibited for formation of roads including stacking to uniform line and level including cost of all labour complete as per specifications. (with all lead and lift) | | | | | | | | |
| | | cum | | | | | 127.31 | 1243.51 | 158314.37 |
| 14 | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. | | | | | | | | |
| | | cum | | | | | 143.39 | 5562.71 | 797613.35 |
| 15 | "KSRRB M2100-15.2. Providing and laying Reinforcement Cement Concrete M20 with OPC @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplasticizer @3lts confirming to IS9103-1999 Reaffirmed-2008 in Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 1500,1700 & 2100 | | | | | | | | |
| | | cum | | | | | 165.59 | 6626.53 | 1097270.54 |
| 16 | KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 | | | | | | | | |
| | | Ton | | | | | 7.83 | 66813.16 | 522921.69 |

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| | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 17 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 | | | | | | | | |
| | | Sqm | | | | | 236.32 | 323.00 | 76331.36 |
| 18 | Providing and fixing precast covering slab made out of CC 1:2:4 with 100 cm thick and Finishing cutting including form work curing including cost of all materials, labour, unloading, lead and lift transportation etc, complete | | | | | | | | |
| | | Sqm | | | | | 91.94 | 1976.00 | 181663.56 |
| 19 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the, directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications. | | | | | | | | |
| | | Sqm | | | | | 0.00 | 726.48 | 0.00 |
| 20 | Providing barbed GI wire fencing of 12x12 gauge drawn into stone pillars or iron pillars including drawing in holes wherever necessary excluding the cost of pillars but including the cost of barbed wire and binding wire etc., including cost of materials, labour, HOM complete as per specifications. | | | | | | | | |
| | | mt | | | | | 0.00 | 30.87 | 0.00 |
| 21 | Providing and fixing to wall, ceiling and floor unplasticised PVC 10.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM and testing complete as per specifications. | | | | | | | | |
| | | mt | | | | | 0.00 | 120.16 | 0.00 |
| 22 | KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. | | | | | | | | |
| | | Sqm | | | | | 0.00 | 76.07 | 0.00 |
| 23 | Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13 | | | | | | | | |
| | | cum | | | | | 28.35 | 4615.75 | 130856.51 |
| 24 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2 | | | | | | | | |
| | | cum | | | | | 6.30 | 5998.16 | 37788.41 |

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| o | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 25 | Providing and fixing precast covering slab 250 cm thick made out of CC 1:2:4 and jelly 20mm Down size withg steel reinforcement including form work curing including cost of all materials, labour, unloading, lead and lift transportation etc, complete | | | | | | | | |
| | | Sqm | | | | | 49.50 | 5529.68 | 273719.16 |
| 26 | KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | cum | | | | | 12900.00 | 332.92 | 4294668.00 |
| 27 | KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | Sqm | | | | | 16367.78 | 5.51 | 90186.47 |
| 28 | Construction of granular sub-base Grading-Vas Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | cum | | | | | 3789.43 | 1731.87 | 6562800.13 |
| 29 | KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such | | | | | | | | |
| | | cum | | | | | 6370.57 | 1838.80 | 11714203.89 |
| 30 | Cleaning the existing black topped surface with brooms soft brushes and finally dusting with old gunny bags and or compresses air to receive bituminous treatmentincluding cost bof all materials labour HoM of machineries complete as per specification | | | | | | | | |
| | | Sqm | | | | | 8673.46 | 3.30 | 28622.42 |
| 31 | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 --- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | Sqm | | | | | 17393.36 | 28.66 | 498493.55 |

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| o | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 32 | KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface (primed surface) cleaned with mechanical broom. complete as per specifications. Clause 503 of MORTH V revision ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | Sqm | | | | | 36396.49 | 22.46 | 817465.05 |
| 33 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen | | | | | | | | |
| | | cum | | | | | 858.45 | 7544.53 | 6476592.35 |
| 34 | KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision : using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen | | | | | | | | |
| | | cum | | | | | 798.87 | 8600.00 | 6870307.80 |
| 35 | Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. | | | | | | | | |
| | | Nos | | | | | 0.00 | 345.05 | 0.00 |
| 36 | KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.MORTH Chapter 8 | | | | | | | | |
| | | Sqm | | | | | 0.00 | 66.14 | 0.00 |
| 37 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of | | | | | | | | |
| | | 0 | | | | | 196.98 | 563.00 | 110899.74 |

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| No | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 32 | KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface (primed surface) cleaned with mechanical broom. complete as per specifications. Clause 503 of MORTH V revision ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of this work | | | | | | | | |
| | | **Sqm** | | | | | **36396.49** | **22.46** | **817465.05** |
| 33 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen | | | | | | | | |
| | | **cum** | | | | | **858.45** | **7544.53** | **6476592.35** |
| 34 | KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision : using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen | | | | | | | | |
| | | **cum** | | | | | **798.87** | **8600.00** | **6870307.80** |
| 35 | Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. | | | | | | | | |
| | | **Nos** | | | | | **0.00** | **345.05** | **0.00** |
| 36 | KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.MORTH Chapter 8 | | | | | | | | |
| | | **Sqm** | | | | | **0.00** | **66.14** | **0.00** |
| 37 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all other such incidental charges necessary for successful completion of works as per the detailed technical specification and direction of Engineer in charge of | | | | | | | | |
| | | **0** | | | | | **196.98** | **563.00** | **110899.74** |

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| No | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 38 | KSRRB M800 Road markers I Road stud<br>KSRRB MS00-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97- DO Ill Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 1DO mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer ---- Including all lead lifts loading unloading transportation labour hire charges of machinery curing for concrete works cost and convene of all material and all | | | | | | | | |
| | | 0 | | | | | 306.00 | 373.71 | 114355.26 |
| 39 | Supply and fixing of Retro Reflective Single arrow road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement<br>concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause<br>6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor<br>weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender. | | | | | | | | |
| | | 0 | | | | | 0.00 | 29380.00 | 0.00 |
| 40 | Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum including all lead and lift, transportation etc, complete as per Engineer incharge. | | | | | | | | |
| | | cum | | | | | 16157.29 | 70.72 | 1142643.58 |
| 41 | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22) Lead 8 Km | | | | | | | | |
| | | cum | | | | | 16157.29 | 66.55 | 1075267.68 |
| | **Extra Items** | | | | | | | | |
| | **Material cost for Shifting of 11 KV line & LT lines** | | | | | | | | |
| EI-01 | Spun pole 11.00 mtr long | | | | | | | | |
| | | No | | | | | 2.00 | 16850.00 | 33700.00 |
| EI-02 | Single pole Structure kit | | | | | | | | |
| | | Set | | | | | 2.00 | 26734.00 | 53468.00 |
| EI-03 | 11 KV Horizontal X Arms Galvanized Iron (GI) | | | | | | | | |
| | | Set | | | | | 8.00 | 333.00 | 2664.00 |

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| No | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| EI-04 | 11 KV , 5 KN Composite/ Polymeric pin Insulator (24 mm dia FRP Rod) | | | | | | | | |
| | | **No** | | | | | **6.00** | **180.00** | **1080.00** |
| EI-05 | GI wire 10 SWG | | | | | | | | |
| | | **Kg** | | | | | **10.00** | **66.78** | **667.80** |
| EI-06 | Guy wire 7/10 SWG | | | | | | | | |
| | | **Kg** | | | | | **20.00** | **65.14** | **1302.80** |
| EI-07 | PVC pipe 150mm dia | | | | | | | | |
| | | **Mtrs** | | | | | **30.00** | **267.00** | **8010.00** |
| EI-08 | PVC bend 150mm dia | | | | | | | | |
| | | **No** | | | | | **30.00** | **183.00** | **5490.00** |
| EI-09 | PVC Pipe (25mm dia) | | | | | | | | |
| | | **Mtrs** | | | | | **30.00** | **25.00** | **750.00** |
| EI-10 | GOS 200A S/B | | | | | | | | |
| | | **Set** | | | | | **2.00** | **15598.00** | **31196.00** |
| EI-11 | H frame set for GOS | | | | | | | | |
| | | **Set** | | | | | **2.00** | **3724.00** | **7448.00** |
| EI-12 | 9 KV 5KA Metal Oxide Ceramic type with ground Disconnector | | | | | | | | |
| | | **Set/ 3 Nos** | | | | | **2.00** | **2358.00** | **4716.00** |
| EI-13 | 11 KV Class, HG Fuse unit with solid core insulators | | | | | | | | |
| | | **Set** | | | | | **2.00** | **882.00** | **1764.00** |
| EI-14 | Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/154 & 34/ Dt: 04-07-2007 | | | | | | | | |
| | | **Set** | | | | | **4.00** | **1501.00** | **6004.00** |
| EI-15 | Caution/ Danger board | | | | | | | | |
| | | **No** | | | | | **2.00** | **146.00** | **292.00** |
| EI-16 | Alkathene tube 19mm dia and in coils | | | | | | | | |
| | | **Coil** | | | | | **6.00** | **458.00** | **2748.00** |
| EI-17 | Anti climbing Device (12 mtrs/ 1 kg GI Barbed wire) Lumsum | | | | | | | | |
| | | **Kg** | | | | | **2.00** | **76.00** | **152.00** |

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| o | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| EI-18 | 9 Mtrs long RCC Pole | | | | | | | | |
| | | No | | | | | 10.00 | 6258.00 | 62580.00 |
| EI-19 | 11 KV Horizontal X Arms- Galvanised Iron (GI) | | | | | | | | |
| | | Set | | | | | 10.00 | 333.00 | 3330.00 |
| EI-20 | HT ST Support | | | | | | | | |
| | | Nos | | | | | 10.00 | 61.00 | 610.00 |
| EI-21 | 11 KV, 5KN Composite/ Polymeric Pin Insulator (24mm dia FRP Rod) | | | | | | | | |
| | | No | | | | | 48.00 | 180.00 | 8640.00 |
| EI-22 | 45 KN Disc Insulators | | | | | | | | |
| | | Nos | | | | | 20.00 | 301.00 | 6020.00 |
| EI-23 | LT 4 Pin Cross arms | | | | | | | | |
| | | Nos | | | | | 20.00 | 252.00 | 5040.00 |
| EI-24 | LT 2 Pin Cross arms | | | | | | | | |
| | | Nos | | | | | 20.00 | 115.00 | 2300.00 |
| EI-25 | RCC Pole Clamps | | | | | | | | |
| | | Nos | | | | | 16.00 | 71.00 | 1136.00 |
| EI-26 | 1.1 KV Pin Insulators | | | | | | | | |
| | | No. | | | | | 80.00 | 48.00 | 3840.00 |
| EI-27 | No. 8 KN Strain Insulators | | | | | | | | |
| | | No. | | | | | 20.00 | 16.00 | 320.00 |
| EI-28 | Rabbit ACSR Conductor | | | | | | | | |
| | | Kmt | | | | | 0.80 | 36497.00 | 29197.60 |
| EI-29 | LT Aerial Bunched cable 3x95+1x70+1x16 Sqmm Street light (Insulated messenger Cum Neutral) | | | | | | | | |
| | | Kmtr | | | | | 0.20 | 435622.00 | 87124.40 |
| EI-30 | Piercing Connector Suitable for 16 Sqmm- 95 Sqmm AB cable- Service Connections | | | | | | | | |
| | | No | | | | | 6.00 | 235.00 | 1410.00 |
| EI-31 | Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & eye hook) | | | | | | | | |
| | | Sets | | | | | 6.00 | 196.00 | 1176.00 |

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| | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 32 | Universal Hook and Bolts & Nuts | | | | | | | | |
| | | No | | | | | 1.00 | 314.00 | 314.00 |
| EI-33 | Dead end Clamp / Anchor Clamp Assembly 16 to 70 Sqmm Bare Messenger | | | | | | | | |
| | | Sets | | | | | 2.00 | 206.00 | 412.00 |
| EI-34 | Pole Clamp for HT/LT AB cable | | | | | | | | |
| | | Sets | | | | | 1.00 | 103.00 | 103.00 |
| EI-35 | 240 Sqmm, 1.1 KV LT, XLPE or Heat resistant PVC insulated, PVC exuted inner seath armoured UG LT cable | | | | | | | | |
| | | KMtr | | | | | 0.16 | 768443.00 | 122950.88 |
| EI-36 | Epoxy Terminating Kit (Pothead) Suitable for 1.1 KV Class LT UG Cables 3.5 x 225 /240/ 300 Sqmm | | | | | | | | |
| | | Set | | | | | 10.00 | 574.00 | 5740.00 |
| | **Labour cost for Shifting of 11 KV line & LT lines** | | | | | | | | |
| EI-37 | Spun pole 11.00 mtr long | | | | | | | | |
| | | No | | | | | 2.00 | 2503.00 | 5006.00 |
| EI-38 | Single pole Structure kit | | | | | | | | |
| | | Set | | | | | 2.00 | 2236.00 | 4472.00 |
| EI-39 | 11 KV Horizontal X Arms Galvanized Iron (GI) | | | | | | | | |
| | | Set | | | | | 8.00 | 106.00 | 848.00 |
| EI-40 | Pole base concreting 1:2:4 | | | | | | | | |
| | | Each | | | | | 2.00 | 730.00 | 1460.00 |
| EI-41 | Pole base concreting 1:2:4 (1000 x 1000x 2500mm) | | | | | | | | |
| | | Each | | | | | 2.00 | 12177.00 | 24354.00 |
| EI-42 | Coping 1:2:4 (as per actuals) | | | | | | | | |
| | | Each | | | | | 2.00 | 1930.00 | 3860.00 |
| EI-43 | GOS 200A S/B | | | | | | | | |
| | | Set | | | | | 2.00 | 700.00 | 1400.00 |
| EI-44 | H frame set for GOS | | | | | | | | |
| | | Set | | | | | 2.00 | 210.00 | 420.00 |
| EI-45 | 9 KV 5KA Metal Oxide Ceramic type with ground Disconnector | | | | | | | | |
| | | Set/ 3 Nos | | | | | 2.00 | 78.00 | 156.00 |

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| | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| El-46 | 11 KV Class, HG Fuse unit with solid core insulators | | | | | | | | |
| | | Set | | | | | 2.00 | 155.00 | 310.00 |
| El-47 | Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/154 & 34/ Dt: 04-07-2007 | | | | | | | | |
| | | Set | | | | | 4.00 | 503.00 | 2012.00 |
| El-48 | Caution/ Danger board | | | | | | | | |
| | | No | | | | | 2.00 | 53.00 | 106.00 |
| El-49 | Anti climbing Device (12 mtrs/ 1 kg GI Barbed wire) Lumsum | | | | | | | | |
| | | Kg | | | | | 2.00 | 28.00 | 56.00 |
| El-50 | 9 Mtrs long RCC Pole | | | | | | | | |
| | | No | | | | | 10.00 | 1424.00 | 14240.00 |
| El-51 | 11 KV Horizontal X Arms- Galvanised Iron (GI) | | | | | | | | |
| | | Set | | | | | 10.00 | 106.00 | 1060.00 |
| El-52 | HT ST Support | | | | | | | | |
| | | Nos | | | | | 10.00 | 64.00 | 640.00 |
| El-53 | LT 4 Pin Cross arms | | | | | | | | |
| | | Nos | | | | | 20.00 | 106.00 | 2120.00 |
| El-54 | LT 2 Pin Cross arms | | | | | | | | |
| | | Nos | | | | | 20.00 | 106.00 | 2120.00 |
| El-55 | Rabbit ACSR Conductor | | | | | | | | |
| | | Kmt | | | | | 0.80 | 2869.00 | 2295.20 |
| El-56 | LT Aerial Bunched cable 3x95+1x70+1x16 Sqmm Street light (Insulated messenger Cum Neutral) | | | | | | | | |
| | | Kmtr | | | | | 0.20 | 22469.00 | 4493.80 |
| El-57 | Piercing Connector Suitable for 16 Sqmm- 95 Sqmm AB cable- Service Connections | | | | | | | | |
| | | No | | | | | 6.00 | 85.00 | 510.00 |
| El-58 | Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & eye hook) | | | | | | | | |
| | | Sets | | | | | 6.00 | 127.00 | 762.00 |
| El-59 | Universal Hook and Bolts & Nuts | | | | | | | | |
| | | No | | | | | 1.00 | 169.00 | 169.00 |

Scanned by TapScanner

| | Description of Items | Unit | No | Length | Width | Depth | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| El-60 | Dead end Clamp / Anchor Clamp Assembly 16 to 70 Sqmm Bare Messenger | | | | | | | | |
| | | Sets | | | | | 2.00 | 127.00 | 254.00 |
| | | | | | | | | | |
| El-61 | Pole Clamp for HT/LT AB cable | | | | | | | | |
| | | Sets | | | | | 1.00 | 211.00 | 211.00 |
| | | | | | | | | | |
| El-62 | Epoxy Terminating Kit (Pothead) Suitable for 1.1 KV Class LT UG Cables 3.5 x 225 /240/ 300 Sqmm | | | | | | | | |
| | | Set | | | | | 10.00 | 1709.00 | 17090.00 |
| | | | | | | | | | |
| El-63 | Cable trench excavation, 100x0.6x1-600 ordinary soil | | | | | | | | |
| | | Cumtr | | | | | 90.00 | 226.00 | 20340.00 |
| | | | | | | | | | |
| El-64 | Laying of cable in trench LT cable | | | | | | | | |
| | | KMtr | | | | | 0.48 | 20998.00 | 10079.04 |
| | | | | | | | | | |
| El-65 | Refilling & consolidation | | | | | | | | |
| | | Cumtr | | | | | 90.00 | 50.00 | 4500.00 |
| | | | | | | | | | |
| | | | | | | | | Total Construction Cost | 44952143.16 |
| | | | | | | | | 18% GST Charges | 2505622.11 |
| | | | | | | | | PMC & DPR 2% | 930000.00 |
| | | | | | | | | Sub Total | 48387765.27 |
| | | | | | | | | Utility Shifting, Miscellaneous, Rounding off | |
| | GRAND TOTAL | | | | | | | | 48387765.27 |

**Certificate**

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2017-18, issue rates

Assistant Engineer
Project Division, Yelahanka
BBMP Bangalore

Assistant Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Technical Sanction
Accorded For Rs 4838 7765
Head of A/C P 3158
CER NO : 42 Dt: 03/03/2023

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